#3

Sequence Listing

<110> Baker, Kevin P.
Botstein, David
Desnoyers, Luc
Eaton, Dan l.
Ferrara, Napoleone
Fong, Sherman
Gao, Wei-Qiang
Goddard, Audrey
Godowski, Paul J.
Grimaldi, Christopher J.
Gurney, Austin L.
Hillan, Kenneth J.
Pan, James
Paoni, Nicholas F.

<120> Secreted and Transmembrane Polypeptides and Nucleic Acids Encoding the Same

<130> P2830P1C11

<140> 10/006,172
<141> 2001-12-06

<150> 60/098716
<151> 1998-09-01

<150> 60/098723
<151> 1998-09-01

<150> 60/098749
<151> 1998-09-01

<150> 60/098750
<151> 1998-09-01

<150> 60/098803
<151> 1998-09-02

<150> 60/098821
<151> 1998-09-02

<150> 60/098843
<151> 1998-09-02

<150> 60/099536
<151> 1998-09-09

<150> 60/099596
<151> 1998-09-09

<150> 60/099598
<151> 1998-09-09

<150> 60/099602
<151> 1998-09-09

<150> 60/099642
<151> 1998-09-09

<150> 60/099741
<151> 1998-09-10

<150> 60/099754
<151> 1998-09-10

<150> 60/099763
<151> 1998-09-10

<150> 60/099792
<151> 1998-09-10

<150> 60/099808
<151> 1998-09-10

<150> 60/099812
<151> 1998-09-10

<150> 60/099815
<151> 1998-09-10

<150> 60/099816
<151> 1998-09-10

<150> 60/100385
<151> 1998-09-15

<150> 60/100388
<151> 1998-09-15

<150> 60/100390
<151> 1998-09-15

<150> 60/100584
<151> 1998-09-16

<150> 60/100627
<151> 1998-09-16

<150> 60/100661
<151> 1998-09-16

<150> 60/100662
<151> 1998-09-16

<150> 60/100664
<151> 1998-09-16

<150> 60/100683
<151> 1998-09-17

<150> 60/100684
<151> 1998-09-17

<150> 60/100710
<151> 1998-09-17

<150> 60/100711
<151> 1998-09-17

<150> 60/100848
<151> 1998-09-18

<150> 60/100849
<151> 1998-09-18

<150> 60/100919
<151> 1998-09-17

<150> 60/100930
<151> 1998-09-17

<150> 60/101014
<151> 1998-09-18

<150> 60/101068
<151> 1998-09-18

<150> 60/101071
<151> 1998-09-18

<150> 60/101279
<151> 1998-09-22

<150> 60/101471
<151> 1998-09-23

<150> 60/101472
<151> 1998-09-23

<150> 60/101474
<151> 1998-09-23

<150> 60/101475
<151> 1998-09-23

<150> 60/101476
<151> 1998-09-23

<150> 60/101477
<151> 1998-09-23

<150> 60/101479
<151> 1998-09-23

<150> 60/101738
<151> 1998-09-24

<150> 60/101741
<151> 1998-09-24

<150> 60/101743
<151> 1998-09-24

<150> 60/101915
<151> 1998-09-24

<150> 60/101916
<151> 1998-09-24

<150> 60/102207
<151> 1998-09-29

<150> 60/102240
<151> 1998-09-29

<150> 60/102307
<151> 1998-09-29

<150> 60/102330
<151> 1998-09-29

<150> 60/102331
<151> 1998-09-29

<150> 60/102484
<151> 1998-09-30

<150> 60/102487
<151> 1998-09-30

<150> 60/102570
<151> 1998-09-30

<150> 60/102571
<151> 1998-09-30

<150> 60/102684
<151> 1998-10-01

<150> 60/102687
<151> 1998-10-01

<150> 60/102965
<151> 1998-10-02

<150> 60/103258
<151> 1998-10-06

<150> 60/103314
<151> 1998-10-07

<150> 60/103315
<151> 1998-10-07

<150> 60/103328
<151> 1998-10-07

<150> 60/103395
<151> 1998-10-07

<150> 60/103396
<151> 1998-10-07

<150> 60/103401
<151> 1998-10-07

<150> 60/103449
<151> 1998-10-06

<150> 60/103633
<151> 1998-10-08

<150> 60/103678
<151> 1998-10-08

<150> 60/103679
<151> 1998-10-08

<150> 60/103711
<151> 1998-10-08

<150> 60/104257
<151> 1998-10-14

<150> 60/104987
<151> 1998-10-20

<150> 60/105000
<151> 1998-10-20

<150> 60/105002
<151> 1998-10-20

<150> 60/105104
<151> 1998-10-21

<150> 60/105169
<151> 1998-10-22

<150> 60/105266
<151> 1998-10-22

<150> 60/105693
<151> 1998-10-26

<150> 60/105694
<151> 1998-10-26

<150> 60/105807
<151> 1998-10-27

<150> 60/105881
<151> 1998-10-27

<150> 60/105882
<151> 1998-10-27

<150> 60/106023
<151> 1998-10-28

<150> 60/106029
<151> 1998-10-28

<150> 60/106030
<151> 1998-10-28

<150> 60/106032
<151> 1998-10-28

<150> 60/106033
<151> 1998-10-28

<150> 60/106062
<151> 1998-10-27

<150> 60/106178
<151> 1998-10-28

<150> 60/106248
<151> 1998-10-29

<150> 60/106384
<151> 1998-10-29

<150> 60/108500
<151> 1998-10-29

<150> 60/106464
<151> 1998-10-30

<150> 60/106856
<151> 1998-11-03

<150> 60/106902
<151> 1998-11-03

<150> 60/106905
<151> 1998-11-03

<150> 60/106919
<151> 1998-11-03

<150> 60/106932
<151> 1998-11-03

<150> 60/106934
<151> 1998-11-03

<150> 60/107783
<151> 1998-11-10

<150> 60/108775
<151> 1998-11-17

<150> 60/108779
<151> 1998-11-17

<150> 60/108787
<151> 1998-11-17

<150> 60/108788
<151> 1998-11-17

<150> 60/108801
<151> 1998-11-17

<150> 60/108802
<151> 1998-11-17

<150> 60/108806
<151> 1998-11-17

<150> 60/108807
<151> 1998-11-17

<150> 60/108848
<151> 1998-11-18

<150> 60/108849
<151> 1998-11-18

<150> 60/108850
<151> 1998-11-18

<150> 60/108851
<151> 1998-11-18

<150> 60/108852
<151> 1998-11-18

<150> 60/108858
<151> 1998-11-18

<150> 60/108867
<151> 1998-11-17

<150> 60/108904
<151> 1998-11-18

<150> 60/108925
<151> 1998-11-17

<150> 60/113296
<151> 1998-12-22

<150> 60/114223
<151> 1998-12-30

<150> 60/129674
<151> 1999-04-16

<150> 60/141037
<151> 1999-06-23

<150> 60/144758
<151> 1999-07-20

<150> 60/145698
<151> 1999-07-26

<150> 60/162506
<151> 1999-10-29

<150> 09/218517
<151> 1998-12-22

<150> 09/284291
<151> 1999-04-12

<150> 09/403297
<151> 1999-10-18

<150> 09/872035
<151> 2001-06-01

<150> 09/882636
<151> 2001-06-14

<150> 09/946374
<151> 2001-09-04

<150> PCT/US99/00106
<151> 1999-01-05

<150> PCT/US99/20111
<151> 1999-09-01

<150> PCT/US99/21194
<151> 1999-09-15

<150> PCT/US99/28313
<151> 1999-11-30

<150> PCT/US99/28551
<151> 1999-12-02

<150> PCT/US99/30095
<151> 1999-12-16

<150> PCT/US00/00219
<151> 2000-01-05

<150> PCT/US00/00376
<151> 2000-01-06

<150> PCT/US00/03565
<151> 2000-02-11

<150> PCT/US00/04342
<151> 2000-02-18

<150> PCT/US00/05004
<151> 2000-02-24

<150> PCT/US00/05841
<151> 2000-03-02

<150> PCT/US00/06884
<151> 2000-03-15

<150> PCT/US00/13705
<151> 2000-05-17

<150> PCT/US00/14042
<151> 2000-05-22

<150> PCT/US00/14941
<151> 2000-05-30

<150> PCT/US00/15264
<151> 2000-06-02

<150> PCT/US00/23328
<151> 2000-08-24

<150> PCT/US00/23522
<151> 2000-08-23

<150> PCT/US00/30873
<151> 2000-11-10

<150> PCT/US00/30952
<151> 2000-11-08

<150> PCT/US00/32678
<151> 2000-12-01

<150> PCT/US01/06520
<151> 2001-02-28

<150> PCT/US01/06666
<151> 2001-03-01

<150> PCT/US01/17800
<151> 2001-06-01

<150> PCT/US01/19692
<151> 2001-06-20

<150> PCT/US01/21066
<151> 2001-06-29

<150> PCT/US01/21735
<151> 2001-07-09

<160> 477

<210> 1
<211> 43
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide probe

<400> 1
tgtaaaacga cggccagtta aatagacctg caattattaa tct 43

<210> 2
<211> 41
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide probe

<400> 2
caggaaacag ctatgaccac ctgcacacct gcaaatccat t 41

<210> 3
<211> 1110
<212> DNA
<213> Homo sapiens

<400> 3
ccaatcgccc ggtgcggtgg tgcagggtct cgggctagtc atggcgtccc 50

cgtctcggag actgcagact aaaccagtca ttacttgttt caagagcgtt 100

ctgctaatct acacttttat tttctggatc actggcgtta tccttcttgc 150

agttggcatt tggggcaagg tgagcctgga gaattacttt tctcttttaa 200

atgagaaggc caccaatgtc cccttcgtgc tcattgctac tggtaccgtc 250

attattcttt tgggcacctt tggttgtttt gctacctgcc gagcttctgc 300

atggatgcta aaactgtatg caatgtttct gactctcgtt tttttggtcg 350

aactggtcgc tgccatcgta ggatttgttt tcagacatga gattaagaac 400

agctttaaga ataattatga gaaggctttg aagcagtata actctacagg 450

agattataga agccatgcag tagacaagat ccaaaatacg ttgcattgtt 500

gtggtgtcac cgattataga gattggacag atactaatta ttactcagaa 550

aaaggatttc ctaagagttg ctgtaaactt gaagattgta ctccacagag 600

agatgcagac aaagtaaaca atgaaggttg ttttataaag gtgatgacca 650

ttatagagtc agaaatggga gtcgttgcag gaatttcctt tggagttgct 700

tgcttccaac tgattggaat ctttctcgcc tactgccwct ctcgtgccat 750

aacaaataac cagtatgaga tagtgtaacc caatgtatct gtgggcctat 800

tcctctctac ctttaaggac atttagggtc ccccctgtga attagaaagt 850

tgcttggctg gagaactgac aacactactt actgatagac caaaaaacta 900

caccagtagg ttgattcaat caagatgtat gtagacctaa aactacacca 950

ataggctgat tcaatcaaga tccgtgctcg cagtgggctg attcaatcaa 1000

gatgtatgtt tgctatgttc taagtccacc ttctatccca ttcatgttag 1050

atcgttgaaa ccctgtatcc ctctgaaaca ctggaagagc tagtaaattg 1100

taaatgaagt 1110

<210> 4
<211> 245
<212> PRT
<213> Homo sapiens

<220>
<221> sig_peptide
<222> 1-42
<223> Signal Peptide

<220>
<221> TRANSMEM
<222> 19-42, 61-83, 92-114, 209-230
<223> Transmembrane Domains

<220>
<221> misc_feature
<222> 69-80, 211-222
<223> Prokaryotic Membrane Lipoprotein Lipid Attachment Site.

<220>
<221> misc_feature
<222> 75-81, 78-84, 210-216, 214-220, 226-232
<223> N-Myristoylation Site.

<220>
<221> misc_feature
<222> 134-138
<223> N-Glycosylation Site.

<220>
<221> misc_feature
<222> 160-168, 160-169
<223> Tyrosine Kinase Phosphorylation Site.

<220>
<221> unsure
<222> 233
<223> unknown amino acid

<400> 4

```
 Met Ala Ser Pro Ser Arg Arg Leu Gln Thr Lys Pro Val Ile Thr
   1               5                  10                  15

 Cys Phe Lys Ser Val Leu Leu Ile Tyr Thr Phe Ile Phe Trp Ile
                20                  25                  30

 Thr Gly Val Ile Leu Leu Ala Val Gly Ile Trp Gly Lys Val Ser
                35                  40                  45

 Leu Glu Asn Tyr Phe Ser Leu Leu Asn Glu Lys Ala Thr Asn Val
                50                  55                  60

 Pro Phe Val Leu Ile Ala Thr Gly Thr Val Ile Ile Leu Leu Gly
                65                  70                  75

 Thr Phe Gly Cys Phe Ala Thr Cys Arg Ala Ser Ala Trp Met Leu
                80                  85                  90

 Lys Leu Tyr Ala Met Phe Leu Thr Leu Val Phe Leu Val Glu Leu
                95                 100                 105

 Val Ala Ala Ile Val Gly Phe Val Phe Arg His Glu Ile Lys Asn
               110                 115                 120

 Ser Phe Lys Asn Asn Tyr Glu Lys Ala Leu Lys Gln Tyr Asn Ser
               125                 130                 135

 Thr Gly Asp Tyr Arg Ser His Ala Val Asp Lys Ile Gln Asn Thr
               140                 145                 150

 Leu His Cys Cys Gly Val Thr Asp Tyr Arg Asp Trp Thr Asp Thr
               155                 160                 165

 Asn Tyr Tyr Ser Glu Lys Gly Phe Pro Lys Ser Cys Cys Lys Leu
               170                 175                 180

 Glu Asp Cys Thr Pro Gln Arg Asp Ala Asp Lys Val Asn Asn Glu
               185                 190                 195

 Gly Cys Phe Ile Lys Val Met Thr Ile Ile Glu Ser Glu Met Gly
               200                 205                 210

 Val Val Ala Gly Ile Ser Phe Gly Val Ala Cys Phe Gln Leu Ile
               215                 220                 225

 Gly Ile Phe Leu Ala Tyr Cys Xaa Ser Arg Ala Ile Thr Asn Asn
               230                 235                 240

 Gln Tyr Glu Ile Val
               245
```

<210> 5
<211> 1218
<212> DNA
<213> Homo sapiens

<400> 5
cccacgcgtc cggcgccgtg gcctcgcgtc catctttgcc gttctctcgg 50

acctgtcaca aaggagtcgc gccgccgccg ccgccccctc cctccggtgg 100

gcccgggagg tagagaaagt cagtgccaca gcccgaccgc gctgctctga 150

gccctgggca cgcggaacgg gagggagtct gagggttggg gacgtctgtg 200

agggagggga acagccgctc gagcctgggg cgggcggacc ggactggggc 250

cggggtaggc tctggaaagg gcccgggaga gaggtggcgt tggtcagaac 300

ctgagaaaca gccgagaggt tttccaccga ggcccgcgct tgagggatct 350

gaagaggttc ctagaagagg gtgttccctc tttcgggggt cctcaccaga 400

agaggttctt gggggtcgcc cttctgagga ggctgcggct aacagggccc 450

agaactgcca ttggatgtcc agaatcccct gtagttgata atgttgggaa 500

taagctctgc aactttcttt ggcattcagt tgttaaaaac aaataggatg 550

caaattcctc aactccaggt tatgaaaaca gtacttggaa aactgaaaac 600

tacctaaatg atcgtctttg gttgggccgt gttcttagcg agcagaagcc 650

ttggccaggg tctgttgttg actctcgaag agcacatagc ccacttccta 700

gggactggag gtgccgctac taccatgggt aattcctgta tctgccgaga 750

tgacagtgga acagatgaca gtgttgacac ccaacagcaa caggccgaga 800

acagtgcagt acccactgct gacacaagga gccaaccacg ggaccctgtt 850

cggccaccaa ggaggggccg aggacctcat gagccaagga gaaagaaaca 900

aaatgtggat gggctagtgt tggacacact ggcagtaata cggactcttg 950

tagataagta agtatctgac tcacggtcac ctccagtgga atgaaaagtg 1000

ttctgcccgg aaccatgact ttaggactcc ttcagttcct ttaggacata 1050

ctcgccaagc cttgtgctca cagggcaaag gagaatattt taatgctccg 1100

ctgatggcag agtaaatgat aagatttgat gtttttgctt gctgtcatct 1150

actttgtctg gaaatgtcta aatgtttctg tagcagaaaa cacgataaag 1200

ctatgatctt tattagag 1218

<210> 6
<211> 117
<212> PRT
<213> Homo sapiens

<220>
<221> sig_peptide
<222> 1-16
<223> Signal Peptide

<220>
<221> misc_feature
<222> 18-24, 32-38, 34-40, 35-41, 51-57
<223> N-Myristoylation Site.

<220>
<221> misc_feature
<222> 22-26, 50-54, 113-117
<223> Casein Kinase II Phosphorylation Site.

<400> 6

Met	Ile	Val	Phe	Gly	Trp	Ala	Val	Phe	Leu	Ala	Ser	Arg	Ser	Leu	
1				5				10						15	
Gly	Gln	Gly	Leu	Leu	Leu	Thr	Leu	Glu	Glu	His	Ile	Ala	His	Phe	
				20				25						30	
Leu	Gly	Thr	Gly	Gly	Ala	Ala	Thr	Thr	Met	Gly	Asn	Ser	Cys	Ile	
				35				40						45	
Cys	Arg	Asp	Asp	Ser	Gly	Thr	Asp	Asp	Ser	Val	Asp	Thr	Gln	Gln	
				50				55						60	
Gln	Gln	Ala	Glu	Asn	Ser	Ala	Val	Pro	Thr	Ala	Asp	Thr	Arg	Ser	
				65				70						75	
Gln	Pro	Arg	Asp	Pro	Val	Arg	Pro	Pro	Arg	Arg	Gly	Arg	Gly	Pro	
				80				85						90	
His	Glu	Pro	Arg	Arg	Lys	Lys	Gln	Asn	Val	Asp	Gly	Leu	Val	Leu	
				95				100						105	
Asp	Thr	Leu	Ala	Val	Ile	Arg	Thr	Leu	Val	Asp	Lys				
				110				115							

<210> 7
<211> 756
<212> DNA
<213> Homo sapiens

<400> 7
ggcacgaggc gctgtccacc cgggggcgtg ggagtgaggt accagattca 50

gcccatttgg ccccgacgcc tctgttctcg gaatccgggt gctgcggatt 100

gaggtcccgg ttcctaacgg actgcaagat ggaggaaggc gggaacctag 150

gaggcctgat taagatggtc catctactgg tcttgtcagg tgcctggggc 200

atgcaaatgt gggtgacctt cgtctcaggc ttcctgcttt tccgaagcct 250

tccccgacat accttcggac tagtgcagag caaactcttc cccttctact 300

tccacatctc catgggctgt gccttcatca acctctgcat cttggcttca 350

cagcatgctt gggctcagct cacattctgg gaggccagcc agctttacct 400

gctgttcctg agccttacgc tggccactgt caacgcccgc tggctggaac 450

cccgcaccac agctgccatg tgggccctgc aaaccgtgga gaaggagcga 500

ggcctgggtg gggaggtacc aggcagccac cagggtcccg atccctaccg 550

ccagctgcga gagaaggacc ccaagtacag tgctctccgc cagaatttct 600

tccgctacca tgggctgtcc tctctttgca atctgggctg cgtcctgagc 650

aatgggctct gtctcgctgg ccttgccctg gaaataagga gcctctagca 700

tgggccctgc atgctaataa atgcttcttc agaaatgaaa aaaaaaaaaa 750